

**WHAT IS CLAIMED IS:**

- SP  
SA1
1. An adjustable control pedal comprising, in combination:  
a pivotable upper arm having first and second guide slots and a drive slot formed therein;  
a lower arm having a lower end carrying a pedal and operatively connected to the upper arm for selected movement relative to the upper arm;  
a first pin secured to the lower arm and laterally extending into the first guide slot;  
a second pin secured to the lower arm and laterally extending into the second guide slot;  
and  
a drive assembly operatively connected to the lower arm to selectively move the lower arm relative to the upper arm and including:  
a screw carried by the mounting bracket;  
a nut secured to the upper arm, laterally extending through the drive slot from the upper arm to the screw, threadably engaging the screw, and adapted to axially move along the screw upon rotation of the screw; and  
a motor operatively connected to the screw to selectively rotate the screw.
- FIG. 1
2. The adjustable control pedal according to claim 1, wherein the first and second guide slots are formed on opposite sides of the drive slot.
3. The adjustable control pedal according to claim 1, wherein the first and second guide slots are nonparallel.
4. The adjustable control pedal according to claim 3, wherein the first and second guide slots are inclined.
- SP  
SA2
5. The adjustable control pedal according to claim 1, wherein the lower arm is supported by the upper arm only through the first and second pins.

6. An adjustable control pedal comprising, in combination:  
a mounting bracket having first and second slots formed therein;  
an upper arm operatively connected to the mounting bracket for selected movement relative to the mounting bracket;  
a lower arm having a lower end carrying a pedal and pivotably connected to the upper arm;  
a first pin secured to the upper arm and laterally extending into the first slot;  
a second pin secured to the upper arm and laterally extending into the second slot; and  
a drive assembly operatively connected to the upper arm to selectively move the upper arm relative to the mounting bracket.

7. The adjustable control pedal according to claim 6, wherein the drive assembly includes a screw carried by the mounting bracket, a nut secured to the upper arm and threadably engaging the screw, and a motor operatively connected to the screw to selectively rotate the screw, and wherein the nut is adapted to axially move along the screw upon rotation of the screw.

8. The adjustable control pedal according to claim 7, wherein the nut is secured to the upper arm through one of the first and second pins.

9. The adjustable control pedal according to claim 8, wherein the first pin extends from the upper arm at a first lateral side of the slot to the nut at a second lateral side of the slot and the lower arm is located on the second lateral side of the slot.

10. The adjustable control pedal according to claim 6, further comprising a module carried by the upper arm and adapted to sense pivotable movement of the lower arm relative to the upper arm and to send electronic signals representative of pivotable movement of the lower arm relative to the upper arm.

11. An adjustable control pedal comprising, in combination:  
a pivotable upper arm having a first slot formed therein;  
a lower arm having a lower end carrying a pedal and operatively connected to the upper arm for selected movement relative to the upper arm;  
wherein the lower arm has a second slot formed therein;  
a first pin secured to the lower arm and laterally extending into the first slot;  
a second pin secured to the upper arm and laterally extending into the second slot; and  
a drive assembly operatively connected to the upper arm to selectively move the upper arm relative to the mounting bracket.

12. The adjustable control pedal according to claim 11, wherein the drive assembly includes a screw carried by the upper arm, a nut secured to the lower arm and threadably engaging the screw, and a motor operatively connected to the screw to selectively rotate the screw, and wherein the nut is adapted to axially move along the screw upon rotation of the screw.

13. The adjustable control pedal according to claim 12, wherein the nut is secured to the lower arm through the first pin.

14. The adjustable control pedal according to claim 11, wherein the first pin extends from the lower arm at a first lateral side of the slot to the nut at a second lateral side of the slot.

15. The adjustable control pedal according to claim 11, wherein the first and second slots are inclined.

16. An adjustable control pedal comprising, in combination:  
a mounting bracket having first slot formed therein;

an upper arm operatively connected to the mounting bracket for selected movement relative to the mounting bracket and having a second slot formed therein;

a lower arm pivotably connected to the upper arm and having a lower end carrying a pedal;

a first pin secured to the upper arm and laterally extending into the first slot;

a second pin secured to the mounting bracket and laterally extending into the second slot; and

a drive assembly operatively connected to the upper arm to selectively move the upper arm relative to the mounting bracket.

17. The adjustable control pedal according to claim 16, wherein the drive assembly includes a screw carried by the mounting bracket, a nut secured to the upper arm and threadably engaging the screw, and a motor operatively connected to the screw to selectively rotate the screw, and wherein the nut is adapted to axially move along the screw upon rotation of the screw.

18. The adjustable control pedal according to claim 17, wherein the nut is secured to the upper arm through the first pin.

19. The adjustable control pedal according to claim 18, wherein the first pin extends from the upper arm at a first lateral side of the slot to the nut at a second lateral side of the slot and the lower arm is located on the first lateral side of the slot.

20. The adjustable control pedal according to claim 16, further comprising a module carried by the upper arm and adapted to sense pivotable movement of the lower arm relative to the upper arm and to send electronic signals representative of pivotable movement of the lower arm relative to the upper arm.

21. The adjustable control pedal according to claim 16, wherein the first and second slots are inclined.

1A

add  
B